COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: **PS-1800302**
Date Issued: 01/31/2018
Start Date: 04/02/2018
Exp. Date: 08/01/2018
Project No: PWP730052
Quad: ES

UE/CR/PM NO:31304465

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - STOCKTON
PO BOX 930
STOCKTON, CA 95201

Encroachment Type:

Trench			

Location:
DANA AVE(WALKER TO CARDINAL)

In compliance with your request of **01/31/2018** , permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

Traffic Control Per MUTCD

FORMS:	SS/WW, R-29		

Est. Permit Fee: $975.50

KRIS BALAJI, Director
Department of Public Works

WHITE	-Permittee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-Permit Section

By: _____
Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:
   STREETS AND HIGHWAYS CODE
   1. Division 1, Chapter 3
   2. Division 2, Chapter 2, Section 942
   3. Division 2, Chapter 4, Section 1126
   4. Division 2, Chapter 5.5 and Chapter 6

   SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.

4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.

5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.

7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.

8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.

9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.

10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.

11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.

12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.

13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)

14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date ~~12/~~ 01/02/18

To: San Joaquin County
Department of Public Works

PGE
(Applicant Name)

4040 West LN
(Mailing Address)

Stockton CA 95204
(City, State, Zip Code)

408-316-1767
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	730052	REF #	
APN		CR #	
EXP. DATE			
VALID	TO		DRIVEWAYS:
STREET	Dana		*
AREA	Stockton QUAD	ES	*
TYPE	Trench		*
FORMS	SSWW R29		
NOTES			

Sketch (Detailed plans may be submitted)

SEE ATTACHED

3130 4465

Dana Ave subject to pavement cuts shall receive an (1)-inch asphalt concrete overlay from the centerline (or Lane line) to the edeg of the travel way as per the San Joaquin County Trench Cut Policy. If the pavement is disturbed on both sides of the centerline (or adjacent lane), then the entire roadway (or affected lanes) shall be resurfaced. Contractor shall grind and overlay within 10 working days of permanent trench paving. Shoulder areas shall be brought up to finish grade as directed by the County.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the South side of Dana Ave between approximately Cardinal /Walker feet/mile _____ of _____, Stockton, by performing the following work (description of work):

To replace existing STL main by installing a new plastic main

CCTV Inspection may take place

Work will commence on or about 4-2-18 for approximately 90 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Signature of Applicant - Title

1-2-18
Date

2-5.0 TRENCH CUT POLICY

2-5.01 General Requirements

A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.

B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.

C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.

D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.

E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.

F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.

G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.

H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

2-5.02 Collectors, Arterials and Expressways

A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) Years and Over:

1. Longitudinal Trench Cutting in Paved Shoulder

Areas:
The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. Cross-cutting is allowed under the same conditions as Section 2-5.02(B)(3). If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

2-5.04 Exceptions

Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

A. An emergency that endangers life or property.

B. For repair or modification to prevent interruption of essential utility service.

C. For relocation work that is mandated by County, State or Federal law.

D. For service for buildings where no other reasonable means of providing service exists.

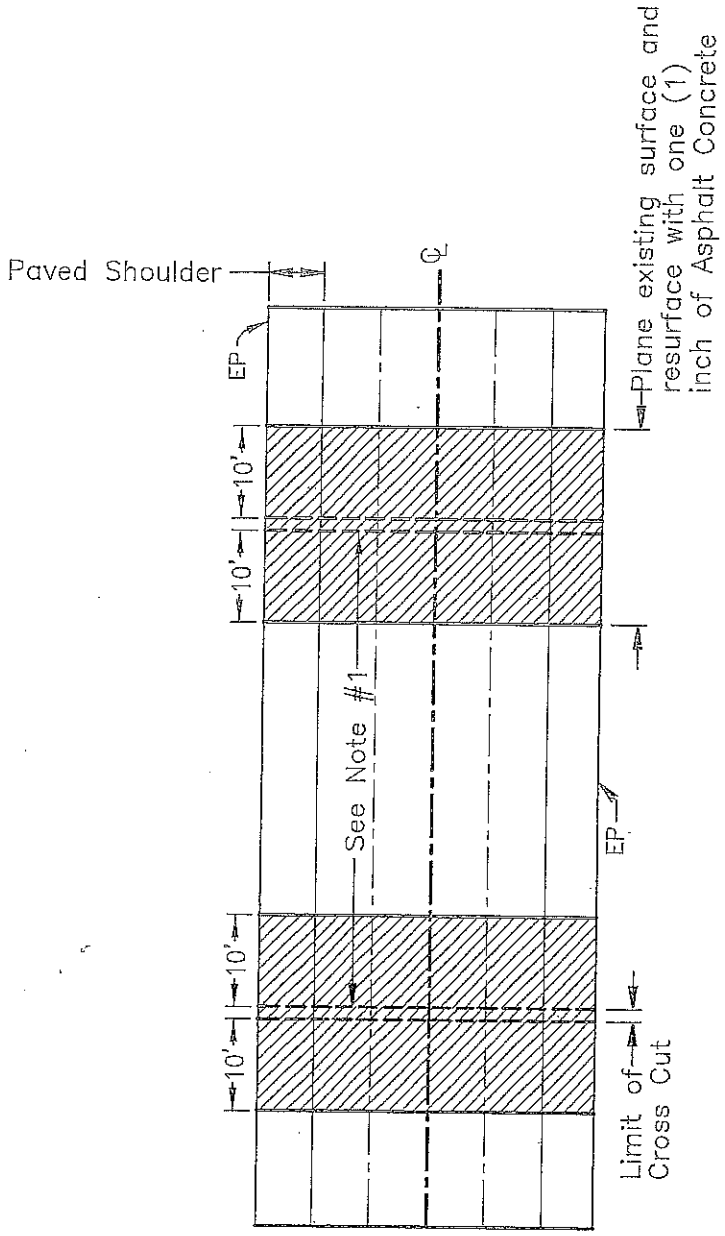
E. For potholing to verify utility depth or location.

F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface Incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

NOTES:

1. If the distance between cross–cuts are less then 150' the entire area between corss–cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R–29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resufaced as shown.
4. If cross–cutting is performed on Local Roads at intervals less then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2–5.03 (B–2).



Public Works
San Joaquin County
Working for YOU

TRENCH CUTTING POLICY
CROSS CUTTING OF COUNTY ROADWAYS

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

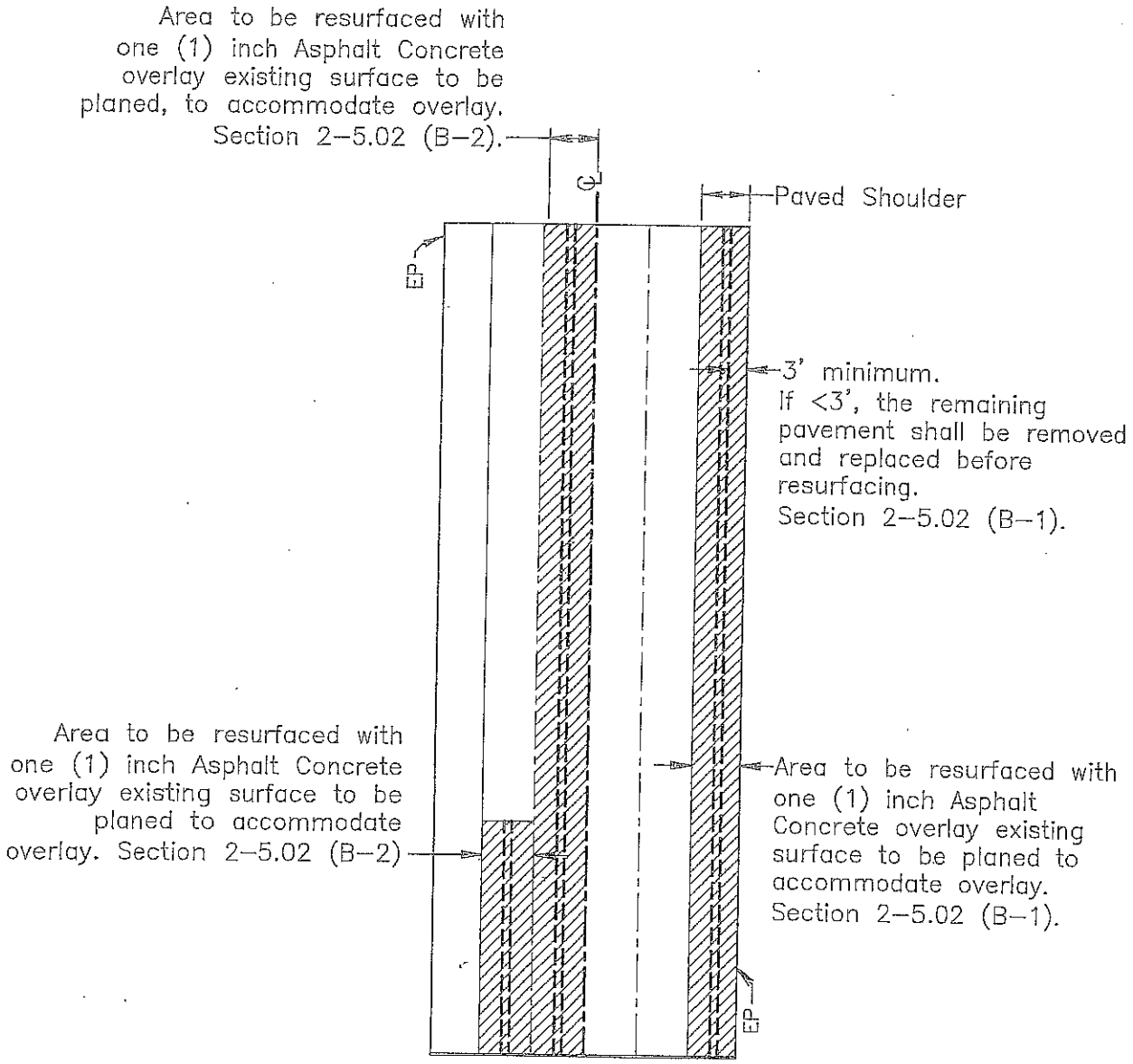
Approved by:

No.	Revision Description	Date

Std. Dwg. No. **R-36**

NOTES:

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R–29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2–5.03 (B–1).



Public Works
San Joaquin County
Working for YOU

TRENCH CUTTING POLICY LONGITUDINAL CUTTING OF COUNTY ROADWAYS

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

Approved by:

No.	Revision Description	Date

Std. Dwg. No. **R-37**

2-5.0 TRENCH CUT POLICY

2-5.01 General Requirements

A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.

B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.

C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.

D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.

E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.

F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.

G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.

H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

2-5.02 Collectors, Arterials and Expressways

A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) Years and Over:

1. Longitudinal Trench Cutting in Paved Shoulder

Areas:
The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. Cross-cutting is allowed under the same conditions as Section 2-5.02(B)(3). If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

2-5.04 Exceptions

Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

A. An emergency that endangers life or property.

B. For repair or modification to prevent interruption of essential utility service.

C. For relocation work that is mandated by County, State or Federal law.

D. For service for buildings where no other reasonable means of providing service exists.

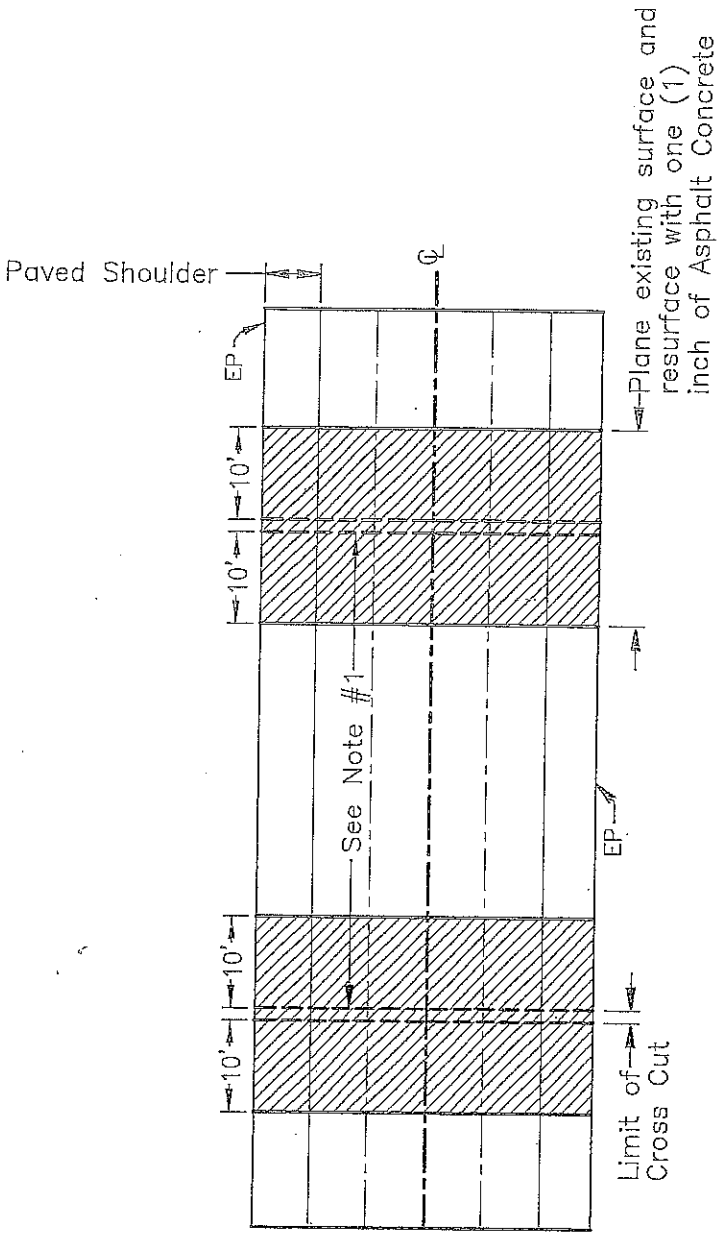
E. For potholing to verify utility depth or location.

F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface Incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.

NOTES:

1. If the distance between cross–cuts are less then 150' the entire area between corss–cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R–29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resufaced as shown.
4. If cross–cutting is performed on Local Roads at intervals less then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2–5.03 (B–2).



Public Works
San Joaquin County
Working for YOU

TRENCH CUTTING POLICY
CROSS CUTTING OF COUNTY ROADWAYS

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

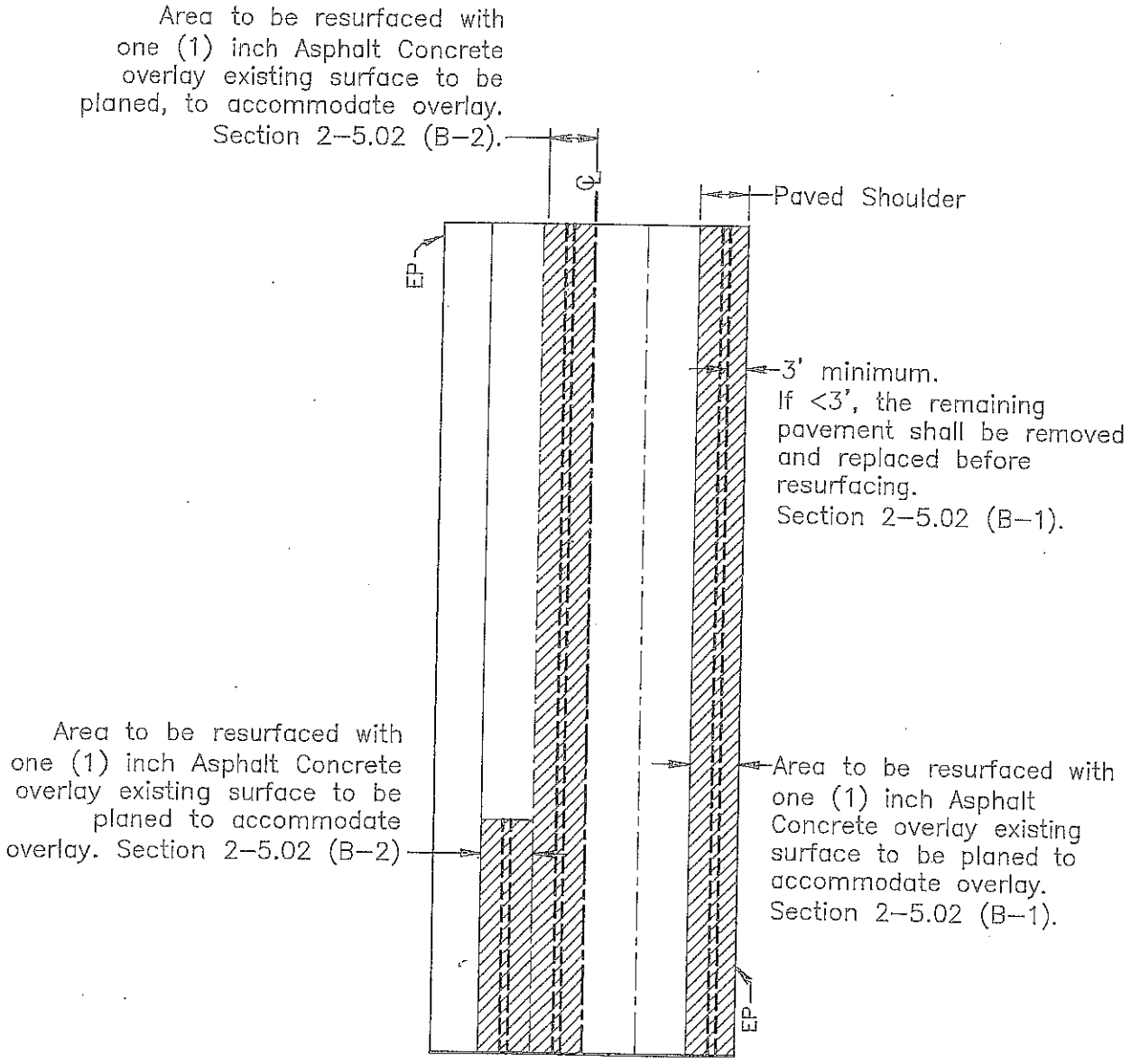
Approved by:

No.	Revision Description	Date

Std. Dwg. No. **R-36**

NOTES:

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R–29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2–5.03 (B–1).



Public Works
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TRENCH CUTTING POLICY LONGITUDINAL CUTTING OF COUNTY ROADWAYS

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: MAY 2015

Approved by:

No.	Revision Description	Date

Std. Dwg. No. **R-37**

SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers. The contractor shall submit traffic control plans for all signing, detours, and any lane closure impacting County right-of-way.

2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.

3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.

4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.

5. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.

6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.

7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.

8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)

9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by CALIFORNIA WATER SERVICE, including any facilities that are abandoned in place. CALIFORNIA WATER SERVICE shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at CALIFORNIA WATER SERVICE's expense. (Streets and Highways Code Section 1463)

10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

11. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.

12. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.

13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.

14. Dana Ave subject to pavement cuts shall receive a Type II Slurry Seal as per San Joaquin County Department of Public Works Improvement Standards Section 2-5.0 Trench Cut Policy. Shoulder areas shall be brought up to the finish grade as directed by the County.

15. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.

16. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.

17. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.

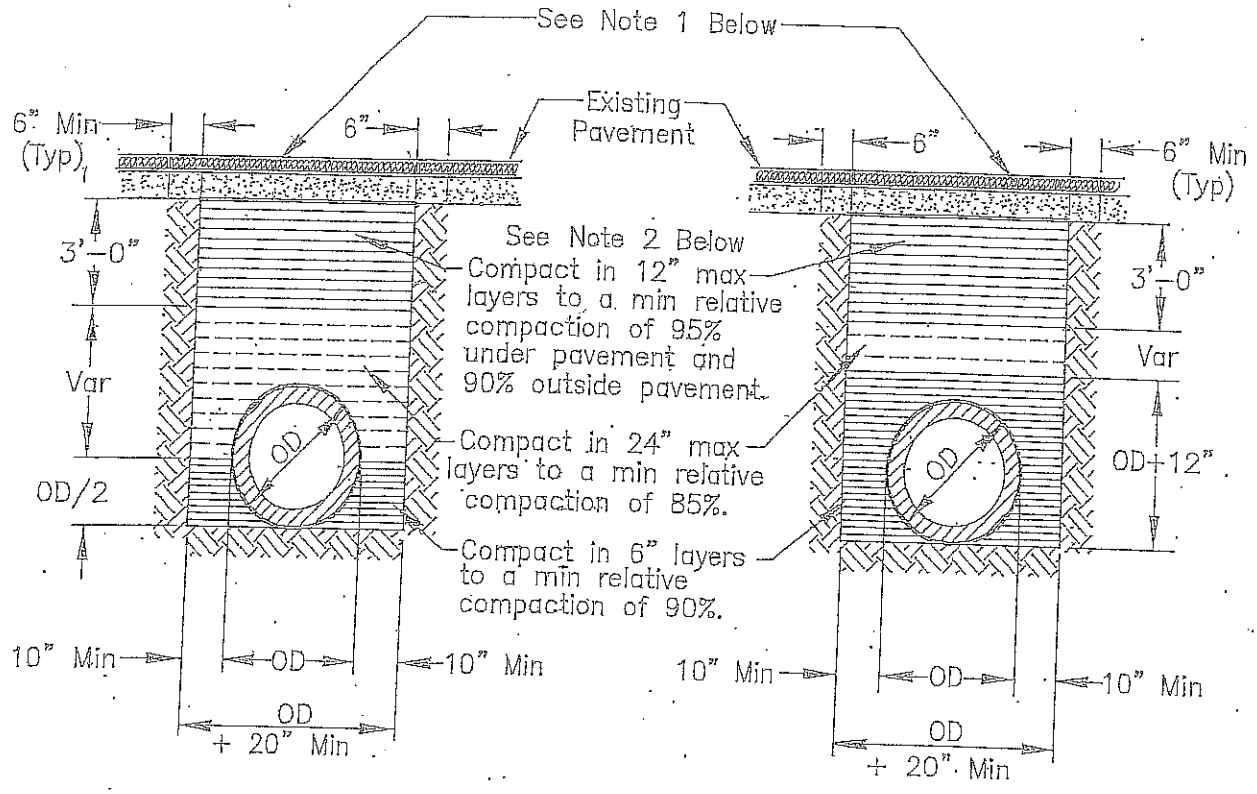
18. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.

19. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.

20. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.

21. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.

22. The contractor shall not conduct construction operations in rain or heavy fog conditions.



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum. of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.

Public Works San Joaquin County
Working for YOU

TYIPCAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by: Thomas M. Flinn

No.	Revision Description	Date

Std. Dwg. No. R-29

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.

1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
   a. The County of San Joaquin Public Works Department
   b. The County of San Joaquin Sheriff's Office
   c. The local postal service
   d. The local fire district
   e. The local school district
   f. The local residents involved

B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.

C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.

D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and Transportation Officials (AASHTO) designations.

1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
3. Plastic pipe conforming to AASHTO Designation M294.

B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.

C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.

D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.

E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.

F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

REPAIRS OF THE COUNTY RIGHT-OF-WAY:

A. All excavations shall be backfilled and compacted immediately after work therein has been completed.

B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.

C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.

D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one foot where 90% compaction is required, and two feet where 80% compaction is required.

E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.

F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.

G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.

H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.

1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch(1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.

I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).

1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.

J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

Winter Weather Utility Work

1. SUPERVISION: The utility company (permittee) shall furnish full-time supervision of all work to insure compliance with the permit provision.

2. START OF WORK: No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.

3. CLEAN PAVEMENT: Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.

4. DAILY RESTORATION: Private driveways and road intersections shall be restored daily.

5. WEATHER-TIGHT CONDITIONS: All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.

BILL OF MATERIALS

SEQUENCE OF EVENTS:

1. TIE IN AND INSTALL NEW PLASTIC MAIN WITH LOCATING WIRE.
2. REPLACE AND TRANSFER SERVICES TO NEW MAIN.
3. DEACTIVATE EXISTING MAIN.

1. INSTALL 1044' OF 2" HP PL MAIN
VIA HDD BORING METHOD REQUESTED BY AARON YU.
2. DEACTIVATE 1038' OF 2" HP STL MAIN.
3. REPLACE INSERT 15 SERVICES, REPLACE NEW 2 SERVICES, AND TRANSFER 13 SERVICE.

ELECT. U.G. IN AREA YES ■ NO ☐

	HP	TP	LP
MAOP	60 PSIG	N/A	N/A
MOP	54 PSIG	N/A	N/A

CLASS LOCATION: 1 ☐ 2 ☐ 3 ■ 4 ☐

CITY: STOCKTON, CA

PLAT MAP: 3006-C1

CPA: 3006-3A

EMERGENCY ZONE: 16-ST-08-B

TBA: X-02

LEGEND

- ——— EXISTING GAS MAIN
- ——— EXISTING GAS SERVICE
- —— —— PROPOSED HIGH PRESSURE GAS MAIN
- - - - - - - - PROPOSED GAS SERVICE PIPE
- (RN) REPLACE BY INSTALLING NEW
- (T) CUT, TEST & TRANSFER SERVICE
- (D) DEACTIVATE SERVICE
- (RI) REPLACE BY INSERT
- PLUMBER TO ALTER HOUSELINES.
- ZA INSTALL 5# ZINC ANODE
- T TIES IN TO GAS SYSTEM
- DE DEAD END GAS MAIN
- EM ELECTRONIC MARKER BALL
- ES ELECTROLYSIS TEST STATION
- CURB VALVE
- 08-7 PLAT & BLOCK #
- EXCESS FLOW VALVE
- C-O CUT OFF
- PRESSURE CONTROL FITTING

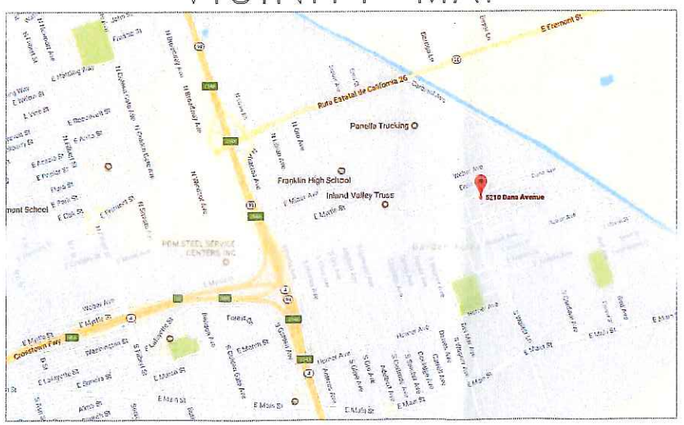
CONTACTS

TITLE	NAME	PHONE
GAS ESTIMATOR	CARLOS DURAND	(559) 347-5101
GAS A.D.E.	TISHA CARDOZA	(559) 347-5101
SUPERVISOR	HERMAN GREGORIO	(559) 347-5101
PROJECT MGR	TANIA SANCHEZ	(209) 456-0779
ENGINEER	AARON YU	(209) 932-5461
SR. GAS ENGINEER	KIRAN BAINS	(209) 406-6194
T&R SUPERVISOR	RICK MUOK	(209) 406-7926
CORROSION MECHANIC	TONY GINTER	(209) 603-9843

GAS NOTES:

1. PRIOR TO STARTING WORK, CONTACT LOCAL AREA I&R SUPERVISOR REGARDING CATHODIC PROTECTION REQUIREMENTS AND ANY SHUTDOWN, DEACTIVATION, OR TIE-IN OF ANY MAINS WHICH MAY AFFECT ANY DISTRICT REGULATOR STATION.
2. ALL WELDING, TIE-INS, CUTTING OFF AND CAPPING OF CAST IRON, STEEL, AND PLASTIC MAIN TO BE DONE PER GS&S D-22, A-38, C-37, AND TD-4160P-2G.
3. PURGE MAINS 10" IN DIAMETER & LESS PER GS&S A-38, ATTACHMENT A, PROCEDURE 2. PURGE MAINS GREATER THAN 10" IN DIAMETER PER GS&S A-38, ATTACHMENT A, PROCEDURE 3.
4. DEACTIVATE ALL UNDERGROUND GAS FACILITIES PER UTILITY PROCEDURE TD-9500P-16 & GS&S A-93.2.
5. PLACE ELECTRONIC MARKING SYSTEM (EMS) DEVICES ON ALL CUT OFF ENDS AND SECTIONALIZING POINTS OF DEACTIVATED PIPE PER TD-9500P-16.
6. MINIMUM 30" COVER OVER DIRECT BURIED PLASTIC MAINS. 36" MINIMUM COVER REQUIRED OVER STEEL TRANSMISSION/HP MAINS WITH SERVICE TEES IN STREET.
7. ALL GAS RISERS ARE TO BE INSTALLED IN ACCORDANCE WITH GS&S J-15.
8. INSTALL METER PROTECTION PER GS&S J-95.
9. VENT REGULATORS PER GS&S H-93.
10. INSTALL PVC SUPPORT CLAMPS ON ALL ALGYL-A PIPE SQUEEZE POINT PER GS&S B-53.1.
11. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. CALL UNDERGROUND SERVICES ALERT (USA) TO CONFIRM. GAS PIPELINES MUST BE INSTALLED WITH AT LEAST 3' OF SEPARATION FROM ANY WET UTILITY PER U.O. STANDARD S5453.
12. CONSTRUCTION SHALL NOTIFY MAPPING WITHIN 24 HOURS OF ALL OPERATIONAL CHANGES TO MAINS, INCLUDING EVERY TIE-IN, CUT OFF, UPRATE, ETC. PER U.O. STANDARD S4412.
13. ALL STEEL RISERS ARE TO BE REPLACED WITH NON CORRODIBLE RISERS OR REPLACED BY USING THE RISER INSERT RENEWAL INSTALLATION PER GS&S A-90.
14. ALL SERVICES AND MAINS TO BE TESTED PRIOR TO TIE-IN PER GS&S A-34.
15. INSTALL PLASTIC MAINS, SERVICES, & LOCATING WIRE PER GS&S A-34, A-90, A-90.2, A-90.3, A-91, A-93, A-93.1, A-93.3, UTILITY STANDARD TD-4170S, D-34 & CORROSION CONTROL STANDARD TD-4198S.
16. INSTALL ANODES PER CORROSION CONTROL MANUAL C-13.1., TYPE "LC" OR "F".
17. INSTALL ELECTROLYSIS TEST STATIONS PER CORROSION CONTRO. MANUAL C-10 AND C-10.1.
18. ALL EXCAVATION TO BE PERFORMED PER TD-5811M, TD-5811P-1OS, TD-4412P-09, AND TD-4821S. STANDBY REQUIRED IF EXCAVATING WITHIN 5' OF A CRITICAL FACILITY. BORING ACTIVITY THAT CROSSES OR THAT PARALLELS WITHIN 10' OF A CRITICAL FACILITY. CONTACT THE CONSTRUCTION SUPERVISOR.
19. NOTIFY SCHOOLS AND HOSPITALS WITHIN 500' OF PROPOSED EXCAVATION FOR GAS FACILITIES A MINIMUM OF 3 DAYS PRIOR TO DIGGING PER AB 1937.
20. ANY PIPE REPLACEMENT VIA SPLITTING TO BE DONE PER TD-4634P-01.
21. CAMERA INSPECTION (PRE/POST) FOR TRENCHLESS METHODS TO BE PERFORMED PER TD-4632P-01.
22. WARNING TAPE IS TO BE INSTALLED IN OPEN TRENCH INSTALLATION OVER GAS PIPELINES IN BOTH TRANSMISSION AND DISTRIBUTION FACILITIES. THIS INCLUDES BELL HOLES, EXCAVATIONS FOR REPAIR PURPOSES AND RISER REPLACEMENTS.
23. ALL FIELD CHANGES REQUIRE PRIOR APPROVAL PER TD-4014P-01.
24. MONUMENT PRESERVATION AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS' ACT (BUSINESS AND PROFESSION CODE SUB-SECTION 8700-8805) SECTION 8771: PRIOR TO THE START OF CONSTRUCTION, ALL SURVEY MONUMENTS, WITHIN THE PROJECT LIMITS THAT HAVE THE POSSIBILITY OF BEING DAMAGED OR DESTROYED DURING CONSTRUCTION, MUST BE LOCATED, AND REFERENCED BY A LICENSED LAND SURVEYOR, AND A CORNER OF RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR. IF ANY OF THESE SURVEY MONUMENTS ARE DESTROYED, DAMAGED OR COVERED OVER DURING CONSTRUCTION, A NEW MONUMENT AND MONUMENT BOX MUST THEN BE SET IN ITS PLACE, AT THE ORIGINAL LOCATION, BY A LICENSED LAND SURVEYOR, AND ANOTHER CORNER OF RECORD OR RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR.

VICINITY MAP



GAS JOB

PG&E

DANA AVENUE BTWN CARDINAL & WALKER
GPRP REPLACEMENT 14A
STOCKTON, CA

NO.	DATE	DESCRIPTION	ORDER #	DWN	CHKD	SUPV	APVD BY
		REVISIONS					

EST: CARLOS DURAND
ADE: TISHA CARDOZA
SUPV: HERMAN GREGORIO
REP: AARON YU
PLNR: DAVID RIVERS
SCALE: 1"=10' DATE: 12/29/2017

CO:
SD:
NOTIF.: 122653384
Other:
SHT: 1 of 2 SHEETS
PM: 31304465 REV 0

ENGINEERING AND PLANNING DEPT.
8 River Park Place, E., 2nd Floor
Fresno, CA, 93720
PHONE #:(559) 347-5101 FAX #:
PACIFIC GAS AND ELECTRIC COMPANY

1 2 3 4 5 6 7 8 9 10
E D C B A
6 5 4 3 2 1 INCH 0

INSTALL 1044' OF 2" PL MAIN
DEACTIVATE 1038' OF 2" STL MAIN

ELECT. U.O. IN AREA	YES ■	NO ☐

	HP	TP	LP
MAOP	60 PSIG	N/A	N/A
MOP	54 PSIG	N/A	N/A

CLASS LOCATION: 1 ☐ 2 ☐ 3 ■ 4 ☐

CITY: STOCKTON, CA
PLAT MAP: 3006-C1
CPA: 3006-3A
EMERGENCY ZONE: 16-ST-00-9
TBA: X-02

WELDING INSPECTED PER PG&E WELDING MANUAL TD-4180M
VISUAL ☐
RADIOGRAPHIC ☐
MAGNETIC PARTICLE ☐
INSPECTOR:
DATE:

INSPECTION PER GS&S D-40 & D-21

STEEL	PLASTIC FUSION
(OXY) WELDER:	FUSION BY:
(ARC) WELDER	INSPECTED BY:
ODSPECTED BY:	

Pre 1972 Pipe Wrap Asbestos Stamp
(TD-4711P-01)
1. Estimating to Complete:
Year Pipe Installed: 1940
Historical Results, Contains Asbestos? ☐ Yes ☐ No ☐ Unknown
Pre 1972 AND Unknown - Sample is Required
2. Field (Sampler) to Complete: LAN ID _____
Date Sampled: _____ Sample ID: _____
3. Mapping to Complete: LAN ID _____
Asbestos Result: ☐ Yes _____% OR ☐ No (ND)

N Cardinal Ave (80')
S Cardinal Ave
N Walker Ln
S Walker Ln (60')
Dana Ave (60')
C1-05
DEACTIVATED
PROPOSED
TO BE 2" HP PL 18'
DETAIL A
INSTALL (2) 2" PL ELBOW 029760
INSTALL 1, TYPE G ETS BEHIND CURB
4" HP PL 19'-06
2" HP PL 19'-13 DE
2" HP PL -06
2" HP STL -39
2"w HP STL 20' -40
2"w HP STL 8' -40

DETAIL A – NOT TO SCALE

INSTALL
(2) 2" TRANSITION FITTING 029805
SAVE-A-VALVE 022452
2" STEEL BOTTOM TAP 022740
2" STEEL PRESSURE CAP 022077
2" STL ELBOW 022136
2" PL ELBOW 029760

NOTE TO CONSTRUCTION

PRIOR TO INSTALLING ALL GAS SERVICES, PLEASE REVIEW NEW GSR FOR SPECIFIC INSTRUCTIONS REGARDING EACH SERVICE

CONSTRUCTION SHALL NOTIFY MAPPING WITHIN 24 HOURS OF ALL OPERATIONAL CHANGES TO MAINS, INCLUDING EVERY TIE-IN, CUT-OFF, UPRATE, ETC., PER U.O. STANDARD S4412.

TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.			
PRESSURE	DURATION	INITIALS	DATE OF TEST
PLASTIC PIPE DATA			
SIZE	MANUFACTURED	DATE OF MANUFACTURE	SDR
STEEL PIPE DATA			
SIZE	MANUFACTURED	DATE OF MANUFACTURE	

INSTALLATION TESTED OR INSPECTED AND NOTED ON DRAWING.
ALL CORROSION LEVELS SATISFACTORY PER PG&E GAS UTILITY STANDARD TD-4181S
QUALIFIED EMPLOYEE DATE
CORROSION MECHANIC'S SIGNATURE IS REQUIRED WHEN A CPA BOUNDARY IS WITHIN THE SCOPE OF THE PROJECT.

TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN			
PRESSURE	DURATION	INITIALS	DATE OF TEST
PLASTIC PIPE DATA			
FOOTAGE AND SIZE		/	
SDR/WALL THICKNESS			
PIPE MANUFACTURE			
DATE MANUFACTURED			
☐ PE 2405/2708	☐ OTHER PE:		
FOOTAGE AND SIZE		/	
SDR/WALL THICKNESS			
PIPE MANUFACTURE			
DATE MANUFACTURED			
☐ PE 2405/2708	☐ OTHER PE:		
FOREMAN LAN ID:	DATE:	/ /	
FOREMAN SIGNATURE:			

LIST ALL PLASTIC PIPE BY FOOTAGE, SIZE, MANUFACTURE AND DATE MANUFACTURED PER GAS DESIGN STANDARD A-95.1

NOTE: MAIN INSTALLATION VIA HDD BORING PER AARON YU.

GAS JOB

CO:
SD:
NOTIF.: 112553364
Other:
SHT.: 2 of 2 SHEETS
PM: 31304465 REV. 0

ENGINEERING AND PLANNING DEPT.
8 River Park Place, E., 2nd Floor
Fresno, CA, 93720
PHONE #:(559) 347-5101 FAX #:
PACIFIC GAS AND ELECTRIC COMPANY

EST: CARLOS DURANO
ADE: TISHA CARROZA
SUPV: MEHRAN GREGORIO
REP: AARON YU
PLNR: DAVID RYMERS
SCALE: 1"=40' DATE: 12/29/2017

NO.	DESCRIPTION	DATE	ORDER #	DWN	CHKD	SUPV	APVD
	REVISIONS						

DANA AVENUE BTWN CARDINAL & WALKER
GPRP REPLACEMENT 14A
STOCKTON, CA

TRAFFIC MANAGEMENT INCORPORATED

PG&E

GENERAL NOTES

1	THIS PLAN SUPPLEMENTED WITH 2014 CA MUTCD.
2	THE LOCATION OF THE SIGNS SHOWN ON THE PLAN ARE GUIDELINES AND ACTUAL LOCATION WILL DEPEND UPON ALIGNMENT, GRADE, LOCATION OF THE STREET INTERSECTIONS, AND 85TH PERCENTILE.
3	NOTIFY LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE COMPANIES WITHIN 72 HOURS BEFORE CONSTRUCTION BEGINS. KEEP OPEN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES
4	CONTINUAL MONITORING AND MAINTENANCE OF THE TRAFFIC CONTROL ZONE WILL BE IMPLEMENTED FOR THE PURPOSE OF MAINTAINING EMERGENCY ACCESS, ACCOMMODATION FOR PEDESTRIANS, BICYCLE TRAFFIC AND THE DISABLED.
5	PROPER TRAINING OF TRAFFIC CONTROLLERS, PROPER DEVICES & PROPER USE OF THE DEVICES, REQUIRED AT ALL TIMES.
6	ALL SIGNS IMPLEMENTED WILL ONLY BE VIEWABLE WHEN IN USE, OTHERWISE ALL WARNING DEVICES ARE TO BE TAKEN DOWN OR COVERED.
7	NOTHING ALLOWED IN BUFFER/TRANSITION AREA AT ANY TIME.
8	ALL CONFLICTING MARKINGS ARE TO BE REMOVED FOR PROJECTS THAT LAST A TERM OF 3 DAYS OR LONGER.
9	SIGNS AND CHANNELIZING DEVICES MUST BE RETRO REFLECTIVE OR ILLUMINATE DURING THE NIGHT. MINIMUM VISIBILITY 1000' (FEET).
10	ONLY ONE SIDEWALK WILL BE CLOSED AT A TIME. PEDESTRIAN AND DISABLED ACCESS TO BE MAINTAINED PER 2014 CA MUTCD STANDARDS.
11	CONTACT UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION FOR POTENTIAL UTILITY CONFLICTS.

RECOMMENDED ADVANCE WARNING SIGN SPACING TABLE

(CA MUTCD 2014 EDITION TABLE 6C-1, SEE TABLE FOR ADDITIONAL DETAILS)

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (LOW SPEED)-25MPH OR LESS	100	100	100
URBAN (LOW SPEED)-MORE THAN 25MPH TO 40MPH	250	250	250
URBAN (HIGH SPEED)-MORE THAN 40MPH	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

DEVICE SPACING TABLE

SPEED (MPH)	FORMULA	BUFFER SPACE	MINIMUM TAPER LENGTHS									MAXIMUM CONE SPACING		2014 MUTCD SECTION 6C.04
			10' OFFSET			11' OFFSET			12' OFFSET					
			L	$\frac{1}{2}$L	$\frac{1}{3}$L	L	$\frac{1}{2}$L	$\frac{1}{3}$L	L	$\frac{1}{2}$L	$\frac{1}{3}$L	LONG	TAPER	SIGN SPACING
			MERGE	SHIFT	SHOULDER	MERGE	SHIFT	SHOULDER	MERGE	SHIFT	SHOULDER			
25		155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	13'	100'-200'
30	$L=\frac{WS^2}{60}$	200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	15'	120'-250'
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	18'	140'-280'
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	20'	160'-320'
45	L=WS	360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	23'	360'-540'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	25'	400'-600'
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	50'	28'	440'-660'
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	50'	30'	480'-720'
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	50'	33'	520'-700'
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	50'	35'	560'-820'

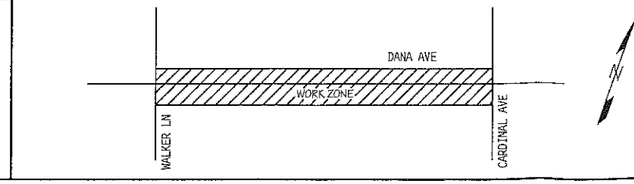
LOW SPEED IS 40 MPH & LESS
HIGH SPEED IS 45 MPH & ABOVE
BOTH ARE BASED ON:
1.) 85TH % TILE OR IF NOT AVAILABLE, THEN USE
2.) POSTED SPEED LIMIT (PSL)
3.) ANTICIPATED SPEED.

S = SPEED
W = WIDTH (OFFSET FROM PATH OF TRAVEL)
L = TAPER LENGTH

LEGEND

- WORK AREA
- HIGH LEVEL WARNING DEVICE
- FLASHING ARROW SIGN (FAS)
- FLAGGER
- EXISTING SIGN
- TYPE-III BARRICADE W/ SIGN
- TYPE-II BARRICADE W/ SIGN
- ADA BARRICADE W/ SIGN
- CHANNELIZATION DEVICE
- SIGN

S WALKER LN & DANA AVE, STOCKTON



WORK AREA TRAFFIC CONTROL: S WALKER LN & DANA AVE

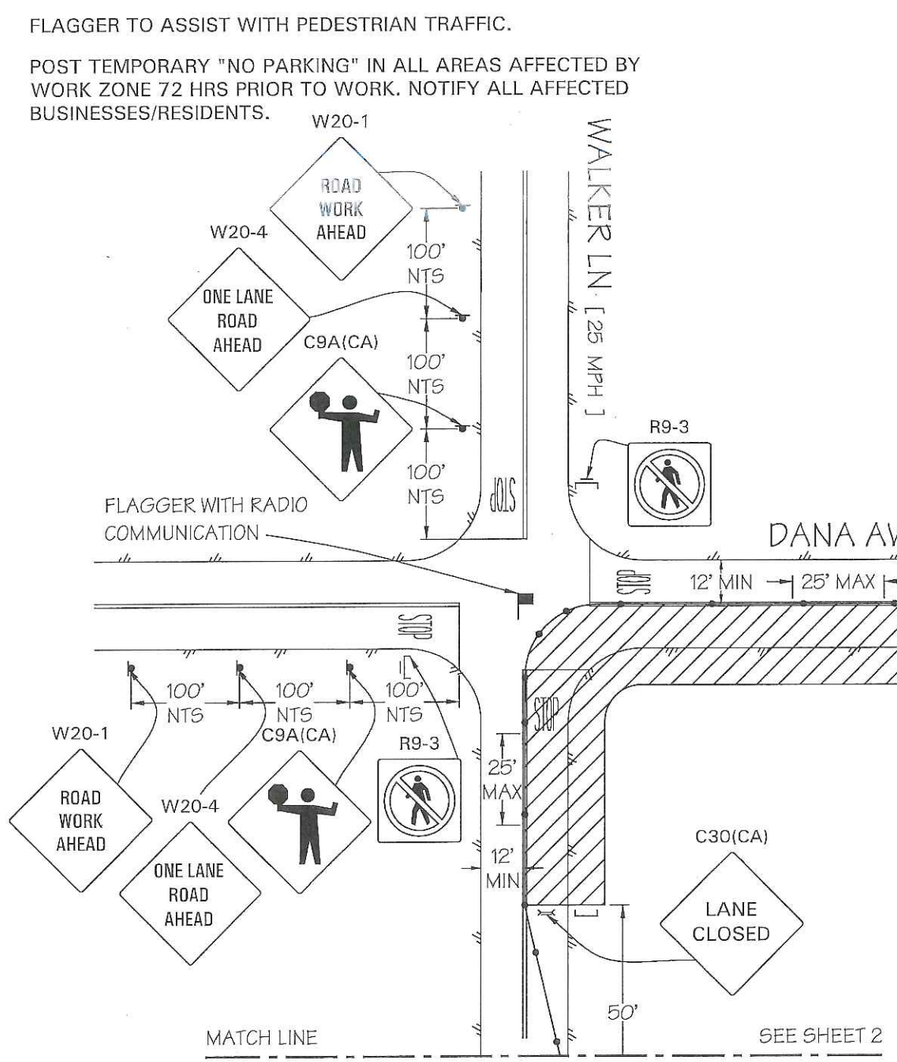
CONTACT: CARLOS DURAND
CONTACT: 559-347-5307
JOB NUMBER: 126289 PLAN#: 31630
PM#31304465
COVER SHEET SIZE: B SCALE: N.T.S.
DATE: 12/5/17 PREPARED BY: JVI

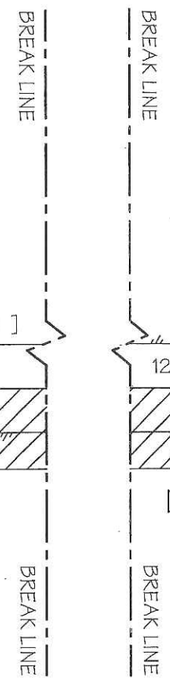
TRAFFIC MANAGEMENT, INC.
California · Great Lakes · New York
800.763.3999
www.trafficmanagement.com
Traffic Control Services - Sales & Rentals
Permits & Consulting - Engineering - Training
C31 # 785804

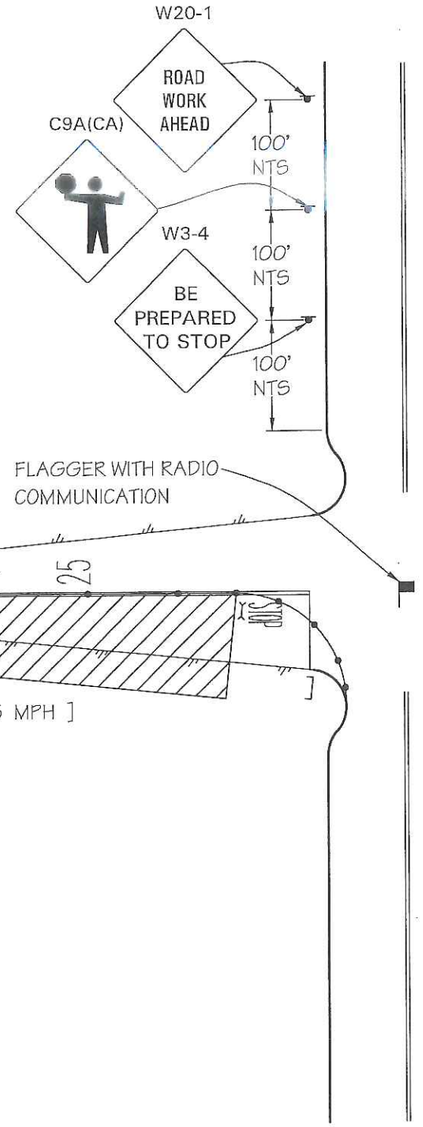
ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

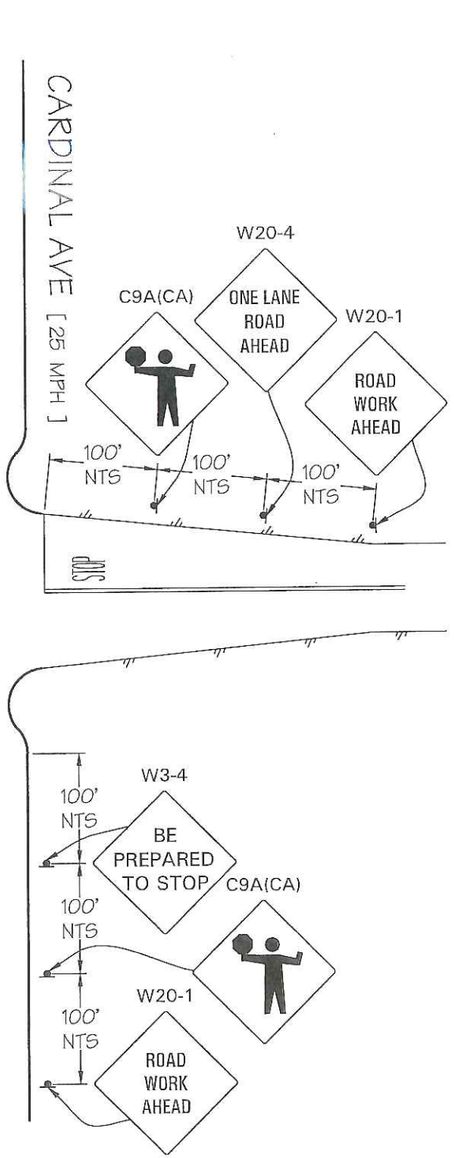
FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.









LEGEND		ADDRESS	
- WORK AREA	- TYPE-III BARRICADE W/ SIGN	S WALKER LN & DANA AVE, STOCKTON	
- HIGH LEVEL WARNING DEVICE	- TYPE-II BARRICADE W/ SIGN		
- FLASHING ARROW SIGN (FAS)	- ADA BARRICADE W/ SIGN		
- FLAGGER	- CHANNELIZATION DEVICE		
- EXISTING SIGN	- SIGN		

WORK AREA TRAFFIC CONTROL: S WALKER LN & DANA AVE

CONTACT: CARLOS DURAND

CONTACT: 559-347-5307

JOB NUMBER: 126289 PLAN#: 31630

PM#31304465

SHEET 1 OF 2 SIZE: B SCALE: 1"=40'

DATE: 12/5/17 PREPARED BY: JVI

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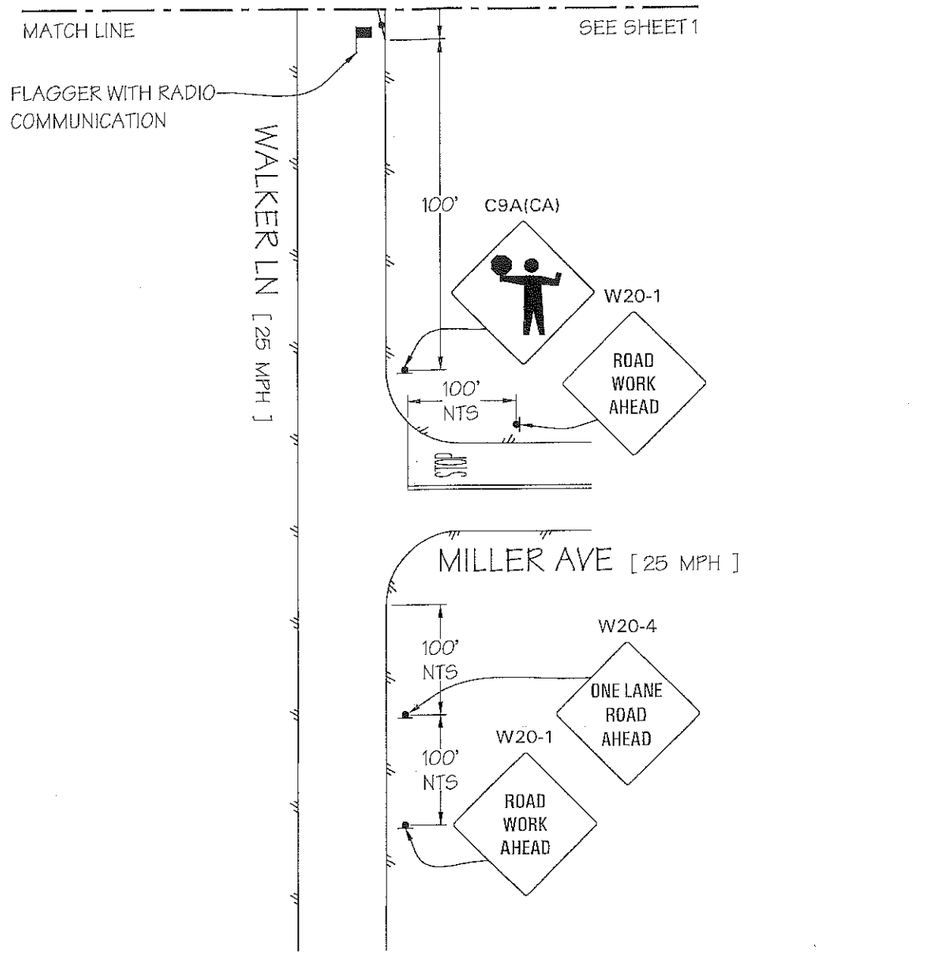
ALL DRIVEWAYS TO REMAIN OPEN UNLESS OTHERWISE INDICATED.

FLAGGER TO ASSIST WITH PEDESTRIAN TRAFFIC.

POST TEMPORARY "NO PARKING" IN ALL AREAS AFFECTED BY WORK ZONE 72 HRS PRIOR TO WORK. NOTIFY ALL AFFECTED BUSINESSES/RESIDENTS.



LEGEND			
▨	- WORK AREA	‖	- TYPE-III BARRICADE W/ SIGN
⚶	- HIGH LEVEL WARNING DEVICE	‖	- TYPE-II BARRICADE W/ SIGN
⧁	- FLASHING ARROW SIGN (FAS)	‖	- ADA BARRICADE W/ SIGN
⚑	- FLAGGER	•	- CHANNELIZATION DEVICE
⚲	- EXISTING SIGN	⚲	- SIGN

ADDRESS

S WALKER LN & DANA AVE, STOCKTON

WORK AREA TRAFFIC CONTROL: S WALKER LN & DANA AVE

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